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Title Force Measurements on 1/35 Scale ASLV Model in 0.6m Transonic Wind Tunnel.

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Abstract

Force measurements on a 1/35 scale model of the ASLV (Augmented Satellite Launch Vehicle) have been carried out at transonic Mach numbers and at different roll orientations in 0.6m transonic wind tunnel. The results, when compared with those on the same model from tests conducted in the U-21 wind tunnel of Glavkosmos Russia show generally a very good agreement. Differences in axial force coefficient at Mach number 1.2 might be due to different support systems resulting in sting interferences of variable magnitudes at low supersonic Mach numbers.